

GCNF Rabbit pAb

Catalog # AP98907

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q15406
Other Accession	Q15406
Reactivity	Rat, Mouse
Predicted	Pig, Human, Rabbit, Chicken, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	54383
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GCNF
Epitope Specificity	91-190/480
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the nuclear hormone receptor family. NR6 subfamily. Contains 1 nuclear receptor DNA-binding domain.
SUBUNIT	Homodimer. Interacts with UIMC1
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Germ cell nuclear factor (GCNF) is an orphan member of the nuclear receptor gene superfamily that influences neurogenesis and germ cell development. GCNF can homodimerize and bind DNA. GCNF regulates paracrine interaction between the oocyte and somatic cells by regulating the expression of BMP-15 and GDF-9, to affect female fertility. GCNF is present in spermatocytes and round spermatids of adult male mouse testis; northern blot and ribonuclease protection assays have shown GCNF is predominant in the testis. The gene expresses three alternatively spliced transcript variants.

Additional Information

Gene ID	2649
Other Names	CT150; GCNF; GCNF1; NR61; RTR; hGCNF; hRTR; 1700113M01Rik; NCNF; NR6A1_HUMAN; NR6A1; Germ cell nuclear factor (GCNF hGCNF); Retinoid receptor-related testis-specific receptor (RTR hRTR); NR6A1_MOUSE; Germ cell nuclear factor (GCNF mGCNF); Retinoid receptor-related testis-specific receptor (RTR); nuclear receptor subfamily 6 group A member 1; nuclear receptor subfamily 6, group A, member 1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

Name	NR6A1
Synonyms	GCNF {ECO:0000303 PubMed:26769970}
Function	Orphan nuclear receptor that binds to a response element containing the sequence 5'-TCAAGGTCA-3' (PubMed: 26769970). Acts as a regulator of embryonic stem cell pluripotency by mediating repression of POU5F1/OCT4: binds to the DR0 element within the POU5F1/OCT4 promoter and inhibits POU5F1/OCT4 expression during embryonic stem cell differentiation (PubMed: 26769970). Involved in the regulation of gene expression in germ cell development during gametogenesis (By similarity).
Cellular Location	Nucleus
Tissue Location	Shows highest expression in the germ cells of the adult testis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.